LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

19340G	56099169	IMOTH TO ETC OFFLOAD DOWNSTR
Sample Point Code	Sample Point Name	Sample Point Location

Laboratory Services	2023080181	NA	MARCELO C - Spot
Source Laboratory	Lab File No	Container Identity	Sampler

USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name

Nov 28, 2023 14:18	Nov 1, 2023	Nov 30, 2023 15:19	Dec 6, 2023
Date Sampled	Date Effective	Date Received	Date Reported

60.00	26,260.22	System Administrator	81 @ 65
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions

Targa Midstream	NG
Operator	Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.4310	1.431	
CO2 (CO2)	3.9860	3.986	
Methane (C1)	72.4180	72.418	
Ethane (C2)	11.2160	11.216	2.9990
Propane (C3)	6.3100	6.31	1.7380
I-Butane (IC4)	0.8840	0.884	0.2890
N-Butane (NC4)	2.0580	2.058	0.6490
I-Pentane (IC5)	0.5080	0.508	0.1860
N-Pentane (NC5)	0.4970	0.497	0.1800
Hexanes Plus (C6+)	0.6920	0.692	0.3000
TOTAL	100.0000	100.0000	6.3410

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Dec 4, 2023

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Â°F		14.73 PSI @ 60.00 Â°F	
Dry	Saturated	Dry	Saturated
1,264.7	1,244.2	1,267.6	1,247.1

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.7974	0.7944

Molecular Weight
23.0076

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S
0 PPM

PROTREND STATUS:
Passed By Validator on Dec 7, 2023

DATA SOURCE:
Imported

PASSED BY VALIDATOR REASON:
First sample taken @ this point, composition looks reasonable

VALIDATOR:
Ashley Russell

VALIDATOR COMMENTS:
ok

TARGA NDL Blowdown/Vent Estimate

All sections should be filled out by field personnel. ***All red fields per event must be entered to calculate volumes correctly!*** ***All yellow fields should be entered if known for increased accuracy.***

Date of Ocurrance (m/d/yyyy)	12/19/2023	**Reported By (First and Last Name)**	Willie Pierce
Site (Select)	FIELD - FRAC CAT BALANCE	**If "FIELD" for Site, Pipe Name**	Mammoth 16"

Calculated Volumes

Blowdown(s)

Reference Meter Number		Blowdown (MCF)	56.12
Pipe ID (in)	10in Sch. 80	Length (Feet)	22,756.00
Begin Press. (PSIG)	72.00	End Press. (PSIG)	0.00
Gas Temp.	62.00	Specific Gravity	
Elevation (ft)	3,200.00		

Reference Meter Number		Blowdown (MCF)	
Pipe ID (in)		Length (Feet)	
Begin Press. (PSIG)		End Press. (PSIG)	
Gas Temp.		Specific Gravity	
Elevation (ft)			

Reference Meter Number		Blowdown (MCF)	
Pipe ID (in)		Length (Feet)	
Begin Press. (PSIG)		End Press. (PSIG)	
Gas Temp.		Specific Gravity	
Elevation (ft)			

Purge/Vent

Reference Meter Number		Volume Lost (MCF)	15.42
Beginning Date & Time	12/19/2023 1305	Vent Duration (Hours)	0.50
Ending Date & Time	12/19/2023 1335	Gas Temp	
Pipe ID (in)	10in Sch. 80	Specific Gravity	
Orifice Size (in)	3	Elevation (ft)	
Avg Pressure	25.00		

Reference Meter Number		Volume Lost (MCF)	
Beginning Date & Time		Vent Duration (Hours)	
Ending Date & Time		Gas Temp	
Pipe ID (in)		Specific Gravity	
Orifice Size (in)		Elevation (ft)	
Avg Pressure			

Reference Meter Number		Volume Lost (MCF)	
Beginning Date & Time		Vent Duration (Hours)	
Ending Date & Time		Gas Temp	
Pipe ID (in)		Specific Gravity	
Orifice Size (in)		Elevation (ft)	
Avg Pressure			

Known (Station) Volumes

Volumes must be known to calculate correctly!

Type of Blowdown	Number of Occurances		Known Volume (MCF) Blowdown		Volume (MCF)
		Multiplied by		Equals	
		Multiplied by		Equals	
		Multiplied by		Equals	

Total Volume (MCF): 71.55

Comments:

Blowdown points were 32.1155, -103.4788; 32.0656, -103.4607; 32.0661, -103.4162. Purge point was 32.1155, -103.4788.

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 297835
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 297835

QUESTIONS

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	Action Number: 297835
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	*Unavailable.*
Incident Facility	**[fAPP2123031392] TARGA NORTHERN DELAWARE, LLC.**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	**Yes, minor venting and/or flaring of natural gas.**
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there **at least 50 MCF** of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of **ANY** liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	*Not answered.*

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	4
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	*Not answered.*
Nitrogen (N2) percentage quality requirement	*Not answered.*
Hydrogen Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

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	Action Number: 297835
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/19/2023
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	01:35 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Commissioning to Purge | Pipeline (Any) | Natural Gas Vented | Released: 72 Mcf | Recovered: 0 Mcf | Lost: 72 Mcf.
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	*Not answered.*
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	*Not answered.*
Downstream OGRID that should have notified this operator	*Not answered.*
Date notified of downstream activity requiring this vent or flare	*Not answered.*
Time notified of downstream activity requiring this vent or flare	*Not answered.*

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Gas was vented to atmosphere when the pipeline was depressurized to prepare for a pipeline tie in. It was necessary to depressurize the line to safely perform the pipeline tie in. Gas was vented until the section of pipeline was depressurized. Once the line was depressurized, the pipeline tie-in work was performed and completed. The line was then purged to removed oxygen from the line for the safety of personnel and equipment.
Steps taken to limit the duration and magnitude of vent or flare	Gas was vented until the section of pipeline was depressurized. The pipeline tie-in work was completed, and the line was the purged to removed oxygen from the line for the safety of personnel and equipment.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The pipeline tie-in was completed and the line was purged to removed oxygen. The purging process was completed and the emission event ended.

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ACKNOWLEDGMENTS

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	Action Number: 297835
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (C-129) report on behalf of this operator and understand that this report can be **a complete** C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☑	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☑	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☑	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
jfuentes	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	12/27/2023